

ABSTRACT

A cell of a flat plate solid oxide fuel cell has a first electrode member of porous material having pores through which all of a fuel gas or air passes. An electrolyte film is on either a front or a back surface of the first electrode member. A second electrode member is on the electrolyte film and a separator film is on the other surface of the first electrode member. The first electrode member is either a fuel electrode or an air electrode and the second electrode member is the other. Part of the electrolyte film and/or part of the separator film form seal portions which cover side surfaces between the electrolyte film and the separator film and function as gas seal films.